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2 We claim:

3 1. A motion compensating apparatus for a floating platform on an ocean, wherein a riser
4 extends from the ocean floor through the floating platform, the apparatus comprising:

5 -a frame member;

6 -a deck slidably attached to said frame member, and wherein said riser extends
7 through said deck;

8 -moving means, connected to said frame member and said deck, for moving said
9 frame member relative to said deck.

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11 2. The apparatus of claim 1 wherein said moving means comprises a cylinder member
12 operatively attached to said frame member and a piston operatively attached to said deck and
13 wherein the apparatus further comprises:

14 -energizing means for energizing said cylinder member so that said cylinder
15 extends from said piston thereby moving said moving said frame member.

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17 3. The apparatus of claim 2 further comprising:

18 -a track stack member that is attached to said deck; and,

19 -wherein said riser is operatively attached to said track stack member so that said
20 deck is attached to said riser.

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22 4. The apparatus of claim 3 wherein a coiled tubing extends into the well.

1 5. The apparatus of claim 4 wherein said energizing means comprises:

2 -a pressurized (recharging) vessel configured to direct a pneumatic supply to said
3 cylinder member; and,

4 -a valve panel for regulating a pressure amount to be delivered to said cylinder
5 member.

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7 6. The apparatus of claim 5 wherein said energizing means further comprising a gas
8 delivery mechanism for keeping the cylinder member within a predetermined pressure range and
9 wherein a pressure circuit connects said gas delivery mechanism to said cylinder member.

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11 7. The apparatus of claim 5 wherein said moving means further comprises:

12 -a second cylinder member; and,

13 -a second piston operatively associated with said second cylindrical member.

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15 8. The apparatus of claim 5 further comprising:

16 -a spacer operatively associated with said frame member and wherein said spacer is
17 attached to a floating platform in an ocean.

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19 9. A system for providing motion compensation on a platform attached to an ocean floor,
20 said platform being operatively associated with a riser extending from a subterranean well, the
21 system comprising:

22 -a frame member positioned on the platform;

1 -a deck slidably attached to said frame member, and wherein said deck is attached
2 to said riser;

3 -a cylinder member operatively attached to said frame member;

4 -a piston operatively associated with said cylinder member and wherein said piston
5 is attached to said deck so that said frame member can be moved relative to said deck.

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7 10. The system of claim 9 wherein said frame member contains a plurality of guide post
8 and wherein said deck is slidably mounted on said guide post so that said frame member is
9 movable relative to said movable deck.

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11 11. The system of claim 10 further comprising:

12 -energizing means for energizing said cylinder so that said cylinder extends from
13 said piston thereby moving said frame member.

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15 12. The system of claim 11 wherein said energizing means comprises:

16 -a pressurized (recharging) vessel configured to direct a pneumatic supply to said
17 cylinder member; and,

18 -a valve panel for regulating a pressure amount to be delivered to said cylinder
19 member.

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21 13. The system of claim 12 wherein said energizing means further comprises a gas
22 delivery mechanism for keeping the cylinder member within a predetermined pressure range and

1 wherein a pressure circuit connects said gas delivery mechanism to said cylinder member.

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3 14. The system of claim 12 further comprising:

4 -a second cylinder member operatively attached to said frame member; and,

5 -a second piston operatively associated with said second cylinder member and

6 wherein said second piston is attached to said deck so that said frame member can be moved
7 relative to said deck.

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9 15. The system of claim 12 wherein said frame member contains a spacer operatively
10 associated with said frame member.

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12 16. The system of claim 12 further comprising:

13 -a track stack member that is attached to said deck; and,

14 -an injection head operatively attached to said track stacker member.

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16 17. The system of claim 16 further comprising means for locking said deck to said frame
17 member in order to prevent movement of said deck.

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19 18. The system of claim 17 wherein said locking means comprises:

20 -a hydraulic cylinder having an engaging pin and wherein said engaging pin
21 engages a latching beam attached to said frame member.

1 19. A method of compensating for movement on an offshore platform during well
2 operations, and wherein a riser extends from a well to the platform, the method comprising:

3 -providing a motion compensator on said platform, said motion compensator
4 comprising: a frame member attached to the platform; and, a deck slidably mounted on said frame
5 member;

6 -attaching said deck to the riser;

7 -moving the platform in a first vertical direction; and,

8 -sliding said frame member relative to said deck.
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10 20. The method of claim 19 wherein the motion compensator further comprises a cylinder
11 connected to said frame member and having a piston disposed therein and wherein said piston is
12 attached to said deck, and wherein the step of sliding said frame member comprises:

13 -controlling the pressure into the cylinder with an energizing pressure means to
14 said cylinder;

15 -absorbing any force associated with the movement of the offshore platform.
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17 21. The method of claim 20 wherein the an injector head is attached to the deck and
18 wherein the injector head receives a coiled tubing, and the method further comprises:

19 -lowering the coiled tubing into the riser;

20 -performing the well operations on the well with the coiled tubing.
21

22 22. The method of claim 20 wherein the pressure within the cylinder is set at a

1 predetermined balanced pressure state and the step of controlling the pressure into the cylinder
2 with said energizing pressure means includes:

- 3 -moving the cylinder in a downward direction in response to sea movement;
- 4 -increasing the area within the cylinder
- 5 -decreasing the pressure within the cylinder;
- 6 -directing a gas into the cylinder so that the pressure within the cylinder increases;
- 7 -increasing the pressure within the cylinder to the predetermined balanced pressure

8 state.

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10 23. The method of claim 20 wherein the pressure within the cylinder is set a
11 predetermined balanced pressure state and the step of controlling the pressure into the cylinder
12 with said energizing pressure means includes:

- 13 -moving the cylinder in an upward direction in response to sea movement;
- 14 -decreasing the area within the cylinder
- 15 -increasing the pressure within the cylinder;
- 16 -directing a gas from the cylinder so that the pressure within the cylinder

17 decreases;

18 -decreasing the pressure within the cylinder to the predetermined balanced
19 pressure state.

20
21 24. The method of claim 20 further comprising:

- 22 -extending an engagement pin from a cylinder, wherein said cylinder is attached to

1 said deck;

2 -engaging said engagement pin with a latching beam, wherein said latching beam is

3 attached to said frame member;

4 -preventing the sliding of said frame member relative to said deck.

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